

**ABSTRACT****PROCESSOR UTILIZATION MODELING FOR DATA NETWORKING  
SOFTWARE**

5        Nodes of a communication network are evaluated by calculating the processor  
occupancy of a processor processing subscriber information at that node. The calculated  
processor occupancy represents the capacity of the node. The processor occupancy and  
thus the node capacity is calculated from a traffic model constructed from a linear  
combination of mathematical equations describing the relationship between a measured  
10    processor occupancy value for a particular type of information and a particular data rate.